

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"20040228579"	US-PGPUB; USPAT	OR	ON	2006/03/06 06:38
S2	30	takahiro.in. and canon and waveguide	US-PGPUB; USPAT	OR	ON	2005/09/27 12:58
S3	32	(waveguide with (branch\$4 arm\$3)) same (insert\$3 near2 fiber)	US-PGPUB; USPAT	OR	ON	2005/09/27 13:06
S4	0	("2004/0228579").URPN.	USPAT	OR	OFF	2005/09/27 13:00
S5	83	(interfero\$6) same (insert\$3 near2 fiber)	US-PGPUB; USPAT	OR	ON	2005/09/27 13:06
S6	83	S5 not S3	US-PGPUB; USPAT	OR	ON	2005/09/27 13:11
S7	1	"6901176".pn.	US-PGPUB; USPAT	OR	ON	2005/09/27 15:05
S8	30	mooney.xa. and plug	US-PGPUB; USPAT	OR	ON	2005/09/27 13:22
S9	1	"20040228579" and (blind)	US-PGPUB; USPAT	OR	ON	2005/09/27 14:35
S10	13	(blind with end with waveguide)	US-PGPUB; USPAT	OR	ON	2005/09/27 18:31
S11	2	(blind adj1 waveguide)	US-PGPUB; USPAT	OR	ON	2005/09/27 14:38
S12	0	S11 not S10	US-PGPUB; USPAT	OR	ON	2005/09/27 14:38
S13	0	("6915047").URPN.	USPAT	OR	OFF	2005/09/27 14:39
S14	11	("20010036336"   "20030133663"   "20040252945"   "5127081"   "5276746"   "5375178"   "5524156"   "5539850"   "6463188"   "6665467"   "6754417").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/27 14:39
S15	0	(blind with dummy with waveguide)	US-PGPUB; USPAT	OR	ON	2005/09/27 14:42
S16	0	(blind same dummy same waveguide)	US-PGPUB; USPAT	OR	ON	2005/09/27 14:41
S17	45	(dummy with waveguide) same (\$6reflect reflect\$6 \$6reflection \$6reflecting)	US-PGPUB; USPAT	OR	ON	2005/09/27 14:43
S18	28	(dummy with waveguide) with (\$6reflect reflect\$6 \$6reflection \$6reflecting)	US-PGPUB; USPAT	OR	ON	2005/09/27 14:43
S19	0	("6931174").URPN.	USPAT	OR	OFF	2005/09/27 14:53

## EAST Search History

S20	1	"5943459".pn.	US-PGPUB; USPAT	OR	ON	2005/09/27 15:05
S21	4	("5943459").URPN.	USPAT	OR	OFF	2005/09/27 15:13
S22	0	("6813404").URPN.	USPAT	OR	OFF	2005/09/27 15:16
S23	15	("4265541"   "4748687"   "4750799"   "4846542"   "4860294"   "4927222"   "5002354"   "5031984"   "5111518"   "5185752"   "5452118"   "5475777"   "5479547"   "5496979"   "5544268").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/27 15:17
S24	79	("4750799").URPN.	USPAT	OR	OFF	2005/09/27 15:33
S25	0	("6870628").URPN.	USPAT	OR	OFF	2005/09/27 16:08
S26	558	coupler with block and "385"/\$. ccls.	US-PGPUB; USPAT	OR	ON	2005/09/27 16:09
S27	1521	coupler with substrate and "385"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/09/27 16:08
S28	1942	S26 or S27	US-PGPUB; USPAT	OR	ON	2005/09/27 16:08
S29	350	coupler with block same fiber and "385"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/09/27 16:09
S30	264	coupler with block with fiber and "385"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/09/27 16:14
S31	1223483	(emitt\$6 or receiver or transceiver or laser or \$6diode or (light with (source or signal)))	US-PGPUB; USPAT	OR	ON	2005/09/27 16:14
S32	1729	S28 and (emitt\$6 or receiver or transceiver or laser or \$6diode or (light with (source or signal or transmitt\$6 or detector)))	US-PGPUB; USPAT	OR	ON	2005/09/27 16:26
S33	243	S30 and (emitt\$6 or receiver or transceiver or laser or \$6diode or (light with (source or signal or transmitt\$6 or detector)))	US-PGPUB; USPAT	OR	ON	2005/09/27 16:18
S34	3	("2001/0053265").URPN.	USPAT	OR	OFF	2005/09/27 16:19
S35	0	("6814503").URPN.	USPAT	OR	OFF	2005/09/27 16:24
S36	414	S28 and (emitt\$6 or receiver or transceiver or laser or \$6diode or (light with (source or signal or transmitt\$6 or detector))) same block	US-PGPUB; USPAT	OR	ON	2005/09/27 16:28
S37	2	("6480647").URPN.	USPAT	OR	OFF	2005/09/27 16:37
S38	14	("6456766").URPN.	USPAT	OR	OFF	2005/09/27 16:41
S39	3	("6635866").URPN.	USPAT	OR	OFF	2005/09/27 16:43

## EAST Search History

S40	19	("4240849").URPN.	USPAT	OR	OFF	2005/09/27 17:28
S41	1	"20030035632"	US-PGPUB; USPAT	OR	ON	2005/09/27 17:57
S42	1	"6922508".pn.	US-PGPUB; USPAT	OR	ON	2005/09/27 18:04
S43	121	waveguide with tap\$5 with splitter and "385"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/09/27 18:05
S44	34	waveguide with (tap! tapping) with splitter and "385"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/09/27 18:10
S45	0	beamsplitter with (tap! tapping) with add with drop	US-PGPUB; USPAT	OR	ON	2005/09/27 18:11
S46	0	beamsplitter with (tap! tapping) with drop	US-PGPUB; USPAT	OR	ON	2005/09/27 18:11
S47	50	splitter with (tap! tapping) with drop	US-PGPUB; USPAT	OR	ON	2005/09/27 18:25
S48	47	(tap! tapping) with drop with add and "385"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/09/27 18:26
S49	4	sump\$6 with waveguide with reflect\$6	US-PGPUB; USPAT	OR	ON	2005/09/27 18:35
S50	10	optic\$6 adj1 sump\$6	US-PGPUB; USPAT	OR	ON	2006/03/06 08:08
S51	34	mooney.xa. and roll\$6	US-PGPUB; USPAT	OR	ON	2005/09/27 18:40
S52	8	("5726796").URPN.	USPAT	OR	OFF	2005/09/27 18:48
S53	0	("5726796").URPN. and sump	USPAT	OR	OFF	2005/09/27 18:56
S54	107	"3dB coupler"	USPAT	OR	OFF	2005/09/27 18:57
S55	2	"3dB coupler" with ratio	USPAT	OR	ON	2005/09/27 18:58
S56	935	"coupler" with ratio and "385"/\$. ccls.	USPAT	OR	ON	2005/09/27 19:20
S57	8	"coupler" with ratio and "385"/\$. ccls. and "2005"	USPAT	OR	ON	2005/09/27 19:12
S58	723	"coupler" with "2.times.2"	USPAT	OR	ON	2005/09/27 19:22
S59	9	"coupler" with "2.times.2" and "2004"	USPAT	OR	ON	2005/09/27 19:13
S60	1	"coupler" with ratio with pass\$4 with reflecting and "385"/\$.ccls.	USPAT	OR	ON	2005/09/27 19:21
S61	68	"coupler" with "2.times.2" with \$6splitter	USPAT	OR	ON	2005/09/27 19:24
S62	7	"coupler" with "2.times.2" with \$6reflecting	USPAT	OR	ON	2005/09/27 19:28
S63	33	"coupler" with "2.times.2" with (substrate block)	USPAT	OR	ON	2005/09/27 20:02

## EAST Search History

S64	3	("4431260"   "4859018"   "4998793").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/27 19:32
S65	35	("4431260").URPN.	USPAT	OR	OFF	2005/09/27 19:36
S66	13	("4810052").URPN.	USPAT	OR	OFF	2005/09/27 19:48
S67	14	"coupler" with "biconic"\$6 with (substrate)	USPAT	OR	ON	2005/09/27 20:11
S68	7	("5987201").URPN.	USPAT	OR	OFF	2005/09/27 20:06
S69	2	("6498879").URPN.	USPAT	OR	OFF	2005/09/27 20:10
S70	10	"coupler" with "biconic"\$6 with (integrate\$2)	USPAT	OR	ON	2005/09/27 20:12
S71	37	("4632513").URPN.	USPAT	OR	OFF	2005/09/27 20:18
S72	11	("5666447").URPN.	USPAT	OR	OFF	2005/09/27 20:16
S73	23	("4632513").URPN. and (substrate block)	USPAT	OR	ON	2005/09/27 20:18
S74	20	("5455703").URPN.	USPAT	OR	OFF	2005/09/27 20:33
S75	2	("5805752").URPN.	USPAT	OR	OFF	2005/09/27 20:39
S76	1	("6167176").URPN.	USPAT	OR	OFF	2005/09/27 20:40
S77	0	("6788852").URPN.	USPAT	OR	OFF	2005/09/27 22:17
S78	189	(flipchip or "flip-chip" or (flip adj1 chip)) with LED	USPAT	OR	OFF	2005/09/27 22:28
S79	70	(flipchip or "flip-chip" or (flip adj1 chip)) with LED with mount\$4	USPAT	OR	OFF	2005/09/27 22:18
S80	1	(flipchip or "flip-chip" or (flip adj1 chip)) with (LED and VCSEL)	USPAT	OR	OFF	2005/09/27 22:29
S81	16	(module package) with (LED with VCSEL)	USPAT	OR	OFF	2005/09/27 22:30
S82	1	"20040228579" and (taper\$6 with blind\$6)	US-PGPUB; USPAT	OR	ON	2005/09/27 23:03
S83	17	"coupler" with "biconic"\$6 with taper\$6 with end	US-PGPUB; USPAT	OR	ON	2005/09/27 23:07
S84	1	"coupler" with "biconic"\$6 with taper\$6 near1 end	US-PGPUB; USPAT	OR	ON	2005/09/27 23:10
S85	1	"coupler" with "2.times.2" with taper\$6 near1 end	US-PGPUB; USPAT	OR	ON	2005/09/27 23:12
S86	50	"coupler" with "2.times.2" with taper\$6	US-PGPUB; USPAT	OR	ON	2005/09/27 23:12
S87	20	("5455703").URPN.	USPAT	OR	OFF	2005/09/27 23:43
S88	19	("5455703").URPN. and (plural\$6 multipl\$6 array\$6)	USPAT	OR	ON	2005/09/27 23:44
S89	18	("5455703").URPN. and (plural\$6 multiple array\$6)	USPAT	OR	ON	2005/09/27 23:44

## EAST Search History

S90	0	"20040228579" and reveiv\$6 with blind\$4	US-PGPUB; USPAT	OR	ON	2005/09/27 23:54
S91	1	"20040228579" and receiv\$6 with blind\$4	US-PGPUB; USPAT	OR	ON	2005/09/27 23:54
S92	1	"20040228579" and optic\$6 adj1 element	US-PGPUB; USPAT	OR	ON	2006/01/30 10:31
S93	1	"20040228579" and optic\$6 adj1 element with block with attach\$5	US-PGPUB; USPAT	OR	ON	2006/01/30 10:32
S94	5	(substrate with waveguide) same (substrate with (emitter detector photodiode PD laser LD LED)) and (waveguide with (sump\$6 blind\$6) same substrate)	US-PGPUB; USPAT	OR	ON	2006/03/06 06:41
S95	6	(substrate with waveguide) same (substrate with (emitter detector photodiode PD laser LD LED)) and (waveguide with (sump\$6 blind\$6))	US-PGPUB; USPAT	OR	ON	2006/03/06 06:44
S96	56	(substrate with waveguide) same (substrate with (emitter detector photodiode PD laser LD LED)) and (waveguide with (sump\$6 blind\$6 (optic\$6 near2 terminat\$6)))	US-PGPUB; USPAT	OR	ON	2006/03/06 06:44
S97	32	(substrate with waveguide) same (substrate with (emitter detector photodiode PD laser LD LED)) and (waveguide with (sump\$6 blind\$6 (optic\$6 near1 terminat\$6)))	US-PGPUB; USPAT	OR	ON	2006/07/28 13:42
S98	4	("5943459").URPN.	USPAT	OR	OFF	2006/03/06 07:03
S99	251	surface adj1 emit\$6 adj1 laser with fiber with coupl\$6	US-PGPUB; USPAT	OR	ON	2006/03/06 08:10
S100	4	surface adj1 emit\$6 adj1 laser with fiber with coupl\$6 and subscriber	US-PGPUB; USPAT	OR	ON	2006/03/06 08:28
S101	0	"5726796".pn. and surface adj1 emit\$6 adj1 laser	US-PGPUB; USPAT	OR	ON	2006/06/05 17:45
S102	1	"5726796".pn. and amplif\$6 with "10"	US-PGPUB; USPAT	OR	ON	2006/03/06 08:24
S103	18	surface adj1 emit\$6 adj1 laser with fiber with signal near1 light	US-PGPUB; USPAT	OR	ON	2006/03/06 08:31
S104	1	surface adj1 emit\$6 adj1 laser near2 fiber with signal near1 light	US-PGPUB; USPAT	OR	ON	2006/03/06 08:31
S105	1	"5726796".pn. and ("10" "22") with "1"	US-PGPUB; USPAT	OR	ON	2006/07/26 11:09
S106	12	adhesive with fix with fibers near3 v-groove	US-PGPUB; USPAT	OR	ON	2006/06/05 17:53

## EAST Search History

S107	0	"5726796".pn. and (adhes\$6 bond\$6 gluing glue resin epox\$6 past\$6 frit\$6)	US-PGPUB; USPAT	OR	ON	2006/07/26 11:13
S108	1	"5726796".pn. and (secur\$6 fasten\$6 fix\$6 affix\$6)	US-PGPUB; USPAT	OR	ON	2006/07/26 11:08
S109	1	"5726796".pn. and (plac\$6 insert\$6)	US-PGPUB; USPAT	OR	ON	2006/07/26 11:08
S110	1	"5726796".pn. and ("10" "22")	US-PGPUB; USPAT	OR	ON	2006/07/26 11:09
S111	1	"5726796".pn. and ("10" "22" "9")	US-PGPUB; USPAT	OR	ON	2006/07/26 11:10
S112	532	"v-groove" with fiber with (adhes\$6 bond\$6 gluing glue resin epox\$6 past\$6 frit\$6)	US-PGPUB; USPAT	OR	ON	2006/07/26 11:13
S113	22	"v-groove" with fiber with (adhes\$6 bond\$6 gluing glue resin epox\$6 past\$6 frit\$6) same amplif\$6	US-PGPUB; USPAT	OR	ON	2006/07/28 14:04
S114	1	"4240849".pn.	US-PGPUB; USPAT	OR	ON	2006/07/28 13:57
S115	0	(waveguide with (branch\$4 arm\$3)) same (insert\$3 near2 fiber) and (adhes\$6 bond\$6 gluing glue resin epox\$6 past\$6 frit\$6) same amplif\$6	US-PGPUB; USPAT	OR	ON	2006/07/28 14:04